

291300-23-V

SEMI-ANNUAL PROGRESS, STATUS, and MANAGEMENT REPORT

June 1999

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Prepared For:

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SEMI-ANNUAL PROGRESS REPORT

21 June 1999

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Period of Report: 1 December 1998 – 31 May 99

Technical Progress

EI began alpha testing of the SPAWAR RMA algorithm on 7 December 1998. Progress was slow and the work continued through January 1999. The slow progress was due to problems accessing computers at SPAWAR and to problems installing and building SPE and the RMA at EI. In January, SPAWAR suggested that EI use the SSH (secure shell) software for accessing SPAWAR machines, and SSH seemed to solve most of the computer access problems. EI completed alpha testing of the SPAWAR RMA algorithm around 15 March 99. SPAWAR requested that EI provide a written summary of the RMA alpha testing; this will be included as an attachment to a standard bimonthly progress report.

In May 1999, EI downloaded the Solaris/SPE version of the PFA algorithm from SPAWAR. The Solaris version of SPE built without error, but some minor problems were encountered while building the PFA executable. With a small amount of effort EI solved the build problems and created an executable. EI informed SPAWAR about the specifics of the build problems. After getting some clarification from SPAWAR, EI was able to get the PFA executable to create a complex floating point image that compared well to an image from the current EI version of the PFA. EI will be updating the Solaris/SPE version of the PFA algorithm for SPAWAR as part of new statement of work (see below).

Managerial Progress

EI completed the following management tasks during the fourth six-month performance period of the program:

- Three bimonthly status reports (CDRL A002) were written and delivered
- One semi-annual progress report (CDRL A004) was written and delivered
- One Computer Software End Product Documentation (CDRL A003) was written and delivered

Current Status

Joseph Weber and Alan Szczepaniak from SPAWAR visited EI on 16 December 1998; the pair met with Ron Majewski and Paul Mohan from EI. The group discussed the ongoing SOW modifications and possibilities for future collaboration. In the days immediately following the meeting, EI did a ROM costing to the SPAWAR SOW of 25 November 1998 and sent the costing to SPAWAR on 23 December. SPAWAR reviewed the EI costs and Emailed a new version of the SOW to EI on 30 December 1998. EI reviewed the SOW of 30 December and sent SPAWAR a list of questions and comments on 15 January 1999. On 13 February 1999, SPAWAR replied to EI's SOW questions and comments. EI, in turn, replied to SPAWAR once again on 22 March. On 30 March 99, SPAWAR and EI reached agreement on the new SOW.

Under the new SOW, EI will use the remaining funds on-hand (see below) to accomplish the following tasks:

1. Update SPAWAR's version of the CUP/PFA algorithm for any known deficiencies, test the corrected code per EI procedures and the TEMP, and update the documentation as necessary
2. Develop a test plan for the CUP/PFA algorithm as funding permits
3. Write and deliver an "RMA Alpha Test Report" and a "PFA SAR Test Plan"

Financially, EI spent \$53,099 during the fifth six-month reporting period. EI had \$25,979 of funding left as of 1 June 1999.